

Claims

1.

1 In a package that includes a container having a label secured thereto by a layer of
2 adhesive and a closure secured to said container, the improvement for identifying said package
3 including at least one of said container, said adhesive and said closure having a plurality of
4 micro-particle taggants with multiple colored layers to provide a code for identifying said
5 package.

2.

1 The package set forth in claim 1 wherein at least one of said container and said
2 closure is of molded plastic construction, and wherein said plurality of micro-particle taggants
3 is molded into at least one of said container and said closure.

3.

1 The package set forth in claim 2 wherein said container or closure is of multilayer
2 construction, and wherein said plurality of micro-particle taggants is embedded in at least one
3 layer thereof.

4.

1 The package set forth in claim 3 wherein said plurality of micro-particle taggants
2 is embedded in an intermediate layer of said container or closure.

5.

1 The package set forth in claim 1 wherein said micro-particle taggants are
2 embedded in said layer of adhesive that secures said label to said container.

6.

1 The package set forth in claim 1 wherein said plurality of micro-particle taggants
2 includes at least one of a fluorescing agent and a magnetic charge to enable initial detection of
3 the presence of said plurality of micro-particle taggants.

7.

1 A packaging component that includes at least one layer of material blended with
2 micro-particle taggants so as to render said packaging component identifiable and traceable back
3 to a source.

8.

1 The packaging component set forth in claim 7 wherein said packaging component
2 includes a wall having said micro-particle taggants molded therein.

9.

1 The packaging component set forth in claim 8 includes a container of multilayer
2 construction wherein said micro-particle taggants are embedded in at least one of layer thereof.

10.

1 The packaging component set forth in claim 9 wherein said micro-particle
2 taggants are embedded in a barrier layer of said container.

11.

1 The packaging component set forth in claim 7 includes a container having a label
2 adhered thereto, wherein said micro-particle taggants are embedded in a layer of adhesive that
3 secures said label to said container.

12.

1 The packaging component set forth in claim 7 wherein said component is a
2 closure having said taggants disposed in at least one of a shell of said closure, a liner of said
3 closure, and an adhesive that secures said liner to said shell.

13.

4 The packaging component set forth in claim 7, wherein said micro-particle
5 taggants include at least one of a fluorescing agent and a magnetic charge to enable initial
6 detection of the presence of said micro-particle taggants.
7

14.

1 A method of making a plastic packaging component with micro-particle taggants
2 having multiple color layers, said method including at least one of:
3 blending said micro-particle taggants in at least one resin used to mold said plastic
4 packaging component; and

5 blending said micro-particle taggants in an adhesive used to attach a label to said
6 plastic packaging component.

15.

1 A hollow molded plastic container that includes at least one layer of plastic
2 material and a plurality of micro-particle taggants in said layer, said taggants having colored
3 layers to provide a code for identifying the container.

16.

1 The container set forth in claim 15 wherein said container has a body with
2 multiple plastic layers, and wherein said multiple particle taggants are disposed in at least one
3 of said layers.

17.

1 The container set forth in claim 16 wherein said layers include two outer layers
2 and at least one intermediate layer, with said taggants being disposed in said intermediate layer.

18.

1 A closure that includes a plastic shell, and wherein a plurality of micro-particle
2 taggants are embedded in said shell, in a liner within said shell, and/or within an adhesive
3 disposed between said liner and said shell.